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| Form PTO-1449 (Modified) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 941004(EP)USC1X | SERIAL NO. 400307 09/307-229 |
| | INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | APPLICANT ADRIAN P. WISE ET AL | FILING DATE MARCH 7, 1995 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | PATENT NUMBER | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|----|---------------|------------|------------------|-------|----------|----------------------------|
| DN JT | AA | 3875391 | 04/01/75 | SHAPIRO ET AL | 235 | 156 | 11/02/73 |
| JT | AB | 4225920 | 09/30/80 | STOKES | 364 | 200 | 09/11/78 |
| JT | AC | 4228497 | 10/14/80 | GUPTA ET AL | 364 | 200 | 11/17/77 |
| JT | AD | 4307447 | 12/22/81 | PROVANZANO ET AL | 364 | 200 | 08/19/79 |
| JT | AE | 4467409 | 08/21/84 | POTASH ET AL | 364 | 200 | 08/05/80 |
| JT | AF | 4817857 | 10/14/88 | DRYNAN ET AL | 370 | 80 | 12/31/84 |
| JT | AG | 4710866 | 12/01/87 | ZOLNOWSKY ET AL | 364 | 200 | 10/07/86 |
| JT | AH | 4809159 | 02/28/89 | SOWA | 364 | 200 | 01/21/88 |
| JT | AI | 4811214 | 03/07/89 | NOSENCHUCK ET AL | 364 | 200 | 11/14/86 |
| JT | AJ | 4811413 | 03/07/89 | KIMMEL | 382 | 41 | 10/22/87 |
| JT | AK | 4841436 | 06/20/89 | ASANO ET AL | 364 | 200 | 06/30/88 |
| JT | AL | 4855947 | 08/08/89 | ZOLNOWSKI ET AL | 364 | 200 | 09/27/87 |
| JT | AM | 4922418 | 05/01/90 | DOLECEK | 364 | 200 | 01/15/88 |
| JT | AN | 4953082 | 08/28/90 | NOMURA ET AL | 364 | 200 | 02/15/89 |
| JT | AO | 4989138 | 01/29/91 | RADOCHONSKI | 364 | 200 | 03/14/90 |
| JT | AP | 5043880 | 08/27/91 | YOSHIDA | 364 | 200 | 01/23/89 |
| JT | AQ | 5184347 | 02/02/93 | Farwell et al. | 370 | 94.1 | 07/09/91 |
| JT | AR | 5203003 | 04/13/93 | DONNER | 395 | 800 | 03/26/91 |
| JT | AS | 5218436 | 08/08/93 | SUGIYAMA ET AL | 358 | 141 | 01/23/91 |
| JT | AT | 5227863 | 07/13/93 | Gilbrey et al. | 348 | 578 | 08/07/90 |
| JT | AU | 5297263 | 03/22/94 | OHTSUKA ET AL | 395 | 375 | 04/17/92 |
| DN JT | AV | 5301344 | 04/05/94 | KOLCHINSKY | 395 | 800 | 01/29/91 |

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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
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400987270157
09/207823INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

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ADRIAN P. WISE ET ALFILING DATE
MARCH 7, 1995GROUP
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| INITIAL | PATENT NUMBER | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
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| DN JH | 6309563 | 05/03/94 | FARRAND ET AL | 395 | 200 | 09/09/91 |
| JH | 5329313 | 07/12/94 | KEITH | 348 | 422 | 10/01/93 |
| JH | 5329819 | 07/12/94 | PAGE ET AL | 395 | 200 | 10/30/92 |
| JH | 5333212 | 07/26/94 | LIGTENBERG | 382 | 56 | 11/17/92 |
| JH | 5333266 | 07/26/94 | BOAZ ET AL | 395 | 200 | 03/27/92 |
| JH | 5341371 | 08/23/94 | SIMPSON | 370 | 85.4 | 03/24/91 |
| JH | 5406279 | 04/11/95 | ANDERSON ET AL | 341 | 51 | 09/02/92 |
| JH | 5414813 | 05/09/95 | SHIOBARA | 395 | 200 | 11/01/93 |
| JH | 5442790 | 08/15/95 | NOSENCHUCK | 395 | 700 | 03/09/94 |
| JH | 5448866 | 08/29/95 | DRAKO ET AL | 395 | 500 | 01/30/92 |
| JH | 5450899 | 09/12/95 | HORVATH ET AL | 396 | 800 | 08/04/92 |
| JH | 5452006 | 09/19/95 | AULD | 348 | 390 | 10/25/93 |
| JH | 5461878 | 10/24/95 | NORMILE ET AL | 395 | 650 | 05/14/93 |
| JH | 5481689 | 01/02/96 | STAMM ET AL | 395 | 412 | 08/13/93 |
| JH | 5487064 | 01/23/96 | GALAND ET AL | 370 | 60 | 08/31/94 |
| JH | 5490247 | 02/08/96 | TUNG ET AL | 395 | 162 | 11/24/93 |
| JH | 5497498 | 03/05/96 | TAYLOR | 395 | 800 | 09/28/93 |
| JH | 5504869 | 04/02/96 | UCHIDA | 395 | 375 | 07/15/94 |
| JH | 5535290 | 07/09/96 | Allen | 382 | 250 | 09/11/95 |
| JH | 5566089 | 10/15/96 | HOOGENBOOM | 364 | 514A | 10/26/94 |
| DN JH | 5579052 | 11/28/96 | Arden | 348 | 416 | 05/24/94 |

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John Hanley Husky

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| Form PTO-1449 (Modified) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. 941004(EP)USC1X | SERIAL NO. 402297 09/307237 1770157 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | APPLICANT ADRIAN P. WISE ET AL | |
| (Use several sheets if necessary) | | FILING DATE MARCH 7, 1995 | GROUP 1202 2783 |
| FEB 27 1997 CFR 1.98(b) | | | |

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

| EXAMINER INITIAL | | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION YES NO |
|------------------|-----|-----------------|------------------|--------------------------|-------|----------|----------------------|
| DN SH | F01 | 0618728 | 05/10/94 | EP | | | |
| DN ST | F02 | 9425935 | 11/10/94 | WO | G06K | 13/00 | NO |

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

| EXAMINER INITIAL | DOCUMENT IDENTIFICATION |
|------------------|--|
| JH | P01 ELLIOTT J A ET AL: "REAL-TIME SIMULATION OF VIDEOPHONE IMAGE CODING ALGORITHMS ON RECONFIGURABLE MULTICOMPUTERS." IEEE PROCEEDINGS-E. COMPUTERS & DIGITAL TECHNIQUES, VOL. 139, NO. 3 PART E., 05/01/92, PP 269-279, XPO000106411. |
| JH | P02 HONG, YANG-CHANG; T. H. PAYNE: A HYBRID APPROACH FOR EFFICIENT DATAFLOW COMPUTING. COMPUTERS AND COMMUNICATIONS, 1990 INT'L PHOENIX CONFERENCE. IEEE PUBLICATIONS, MAY 1990 PP 170-178. |
| JH | P03 KAORU, UCHIDA ET AL: "A PIPELINED DATAFLOW PROCESSOR ARCHITECTURE BASED ON A VARIABLE LENGTH TOKEN CONCEPT." ARCHITECTURE, UNIVERSITY PARK, AUG. 15 - 19, 1988, VOL. 1, 15 AUGUST 1988. BRIGGS A, PP 209-216, XPO00079309. |
| JH | P04 KOPET, TOM: "PROGRAMMABLE ARCHITECTURES FOR REAL-TIME VIDEO COMPRESSION." 4TH INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING APPLICATIONS & TECHNOLOGY, VOL. 2, 09/28/93 - 10/01/93, SANTA CLARA, CALIFORNIA, USA, PP 1031-1038. |
| JH | P05 MAYER, A.C.: "THE ARCHITECTURE OF A SINGLE-CHIP PROCESSOR ARRAY FOR VIDEOCOMPRESSION." PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON CONSUMER ELECTRONICS, ROSEMOOR, JUNE 8-10, 1993, NO. CONF. 12, 08/06/93, INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, PP 294-95, XPO000427824. |
| JH | P06 NORMILE, JAMES. DAN WRIGHT, IMAGE COMPRESSION USING COARSE GRAIN PARALLEL PROCESSING. ICASSP 1991-ACOUSTICS, SPEECH & SIGNAL PROCESSING CONFERENCE, IEEE PUBLICATIONS, JULY 1991 PP 1121-1124 |
| JH | P07 TOKUMICHI MURAKAMI ET AL: "A DSP ARCHITECTURAL DESIGN FOR LOW BIT-RATE MOTION VIDEO CODEC." IECON-1990-IECON REGION-10 CONFERENCE ON COMPUTER AND COMMUNICATION, IEEE PUBLICATIONS FEBRUARY 1990, PP 1267-1274, XPO00088313. |
| JH | P08 YANG, KUN-MIN. VLSI ARCHITECTURE DESIGN OF A VERSATILE VARIABLE LENGTH DECODING CHIP FOR REAL-TIME VIDEO CODECS. ICENCON-1990-IECON REGION-10 CONFERENCE ON COMPUTER AND COMMUNICATION, IEEE PUBLICATIONS FEBRUARY 1990, PP 551-554. |

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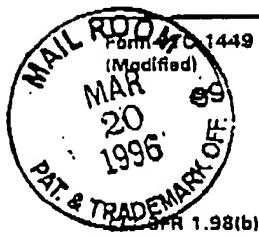
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| | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. POOD P941004(EP)USC1C:P | SERIAL NO. 09/607137 |
| | | INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | APPLICANT Wise et al. | |
| | | (Use several sheets if necessary) | | FILING DATE 03/07/95 | GROUP 2308 2783 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | PATENT NUMBER | | | | | | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
|------------------|----|---------------|---|---|---|---|---|------------|----------|-----------------|----------|----------------------------|----------|
| DNJH | AA | 3 | 8 | 9 | 3 | 0 | 4 | 2 | 7/1/75 | Whitman et al. | 331 | 66 | 12/12/73 |
| previously filed | AB | 3 | 8 | 9 | 3 | 0 | 4 | 2 | 6/07/76 | Belle-Isle | 340 | 472.5 | 6/3/74 |
| DNJH | AC | 4 | 1 | 0 | 7 | 7 | 8 | 0 | 8/16/78 | Grimsdal et al. | 364 | 521 | 1/25/77 |
| DNJH | AD | 4 | 1 | 4 | 2 | 2 | 0 | 5 | 2/27/79 | Iinuma | 388 | 13 | 7/19/77 |

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| | | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION |
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| | | | | | | | YES NO |
| | AE | 0 1 0 6 0 1 1 | 08.10.66 | EP | | | |
| | AF | 0 2 8 5 7 8 7 | 10.02.68 | EP | | | |
| | AG | 0 4 6 8 4 8 0 | 29.01.92 | EP | | | |

OTHER DOCUMENTS (Including Author, Title, Date **, Relevant Pages, Place of Publication **)

| | | |
|------------------|----|--|
| previously cited | AH | Sheng, "A Data Flow Architecture For Digital Image Processing," Wescon Tech. Papers No. 4/0, 1980/81, Anaheim, California, USA, pp. 1-10 |
| | AI | P. Yip, et al., "DIT and DIF Algorithm for Discrete Sine and Cosine Transforms," Proceedings of the International Symposium on Circuits and Systems, IEEE Press, New York, US, Vol. 2/3, 5 June 1985, Kyoto, JP, pages 941-944 |
| | AJ | Heleb S. Hou, "A Fast Recursive Algorithm for Computing the Discrete Cosine Transform," IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. 35, No. 10, October 1987, IEEE Press, New York, US, pages 1488-1491 |
| previously cited | AK | Komornik et al., "An Elastic Pipeline Mechanism By Self-Timed Circuits," IEEE Journal of Solid-State Circuits, Vol. 20, No. 1, 2/88, New York, NY, USA, pp. 111-117 |
| | AL | A. Gupta et al., "A Fast Recursive Algorithm for the Discrete Sine Transform," IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. 38, No. 3, March 1990, IEEE Press, New York, US, pages 583-587 |
| | AM | H.R. Wu, et al., "A Two Dimensional Fast Cosine Transform Algorithm Based on Hou's Approach," IEEE Transaction on Acoustics, Speech, and Signal Processing, Vol. 39, No. 2, February 1991, IEEE Press, New York, US, pages 544-548 |

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| Form PTO-1449 (Modified) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. PO00 P9410041EPUSC1CIP | SERIAL NO. 09/1499,287 1770157 09/1499,287 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | APPLICANT Wise et al. | |
| (37 CFR 1.98(b)) | | FILING DATE 03/07/95 | GROUP 2783 2317 2358 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | PATENT NUMBER | | | | | | | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|----|---------------|---|---|---|---|---|---|------------|-------------------|-------|----------|----------------------------|
| previously filed | AN | 4 | + | 4 | 9 | 2 | 4 | 2 | 4/10/70 | Pitt | 364 | 299 | 5/6/77 |
| DN JH | AO | 4 | 1 | 9 | 6 | 4 | 4 | 8 | 4/1/80 | Whitehouse et al. | 358 | 135 | 5/15/78 |
| JH | AP | 4 | 2 | 1 | 5 | 3 | 8 | 9 | 7/29/80 | Iijima | 368 | 148 | 12/15/78 |
| JH | AQ | 4 | 3 | 0 | 2 | 7 | 7 | 5 | 11/24/81 | Widargren et al. | 358 | 136 | 12/15/78 |
| JH | AR | 4 | 3 | 3 | 4 | 2 | 4 | 6 | 8/8/82 | Saran | 358 | 261 | 5/16/80 |
| JH | AS | 4 | 4 | 3 | 3 | 3 | 0 | 8 | 2/21/84 | Hirata | 331 | 17 | 12/3/81 |
| JH | AT | 4 | 4 | 3 | 7 | 0 | 7 | 2 | 3/13/84 | Asami | 331 | 1A | 9/21/82 |
| JH | AU | 4 | 4 | 9 | 3 | 6 | 2 | 9 | 1/22/85 | Zasio et al. | 377 | 70 | 1/25/83 |
| DU JH | AV | 4 | 5 | 4 | 0 | 9 | 0 | 3 | 9/10/85 | Cooke et al. | 307 | 485 | 10/17/83 |

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

| | | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION |
|----|----|-----------------|------------------|--------------------------|-------|----------|-------------|
| | | | | | | | YES NO |
| JH | AW | 0 5 7 2 2 0 2 | 01.12.93 | EP | | | |
| JH | AX | 0 5 7 2 2 8 3 | 01.12.93 | EP | | | |
| JH | AY | 0 5 7 6 7 4 0 | 05.01.94 | EP | | | |
| JH | AZ | 0 5 8 9 7 3 4 | 08.08.94 | EP | | | X |
| JH | BA | 0 6 3 0 0 3 2 | 19.03.95 | EP | | | |
| JH | BB | 2 0 4 0 0 3 5 | 22.10.80 | GB | | | |
| JH | BC | 2 0 3 9 7 2 4 | 23.04.81 | GB | | | |
| JH | BD | 2 1 7 1 6 7 8 | 28.06.86 | GB | | | |
| JH | BE | 2 1 8 4 0 0 5 | 24.02.88 | GB | | | |

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication**)

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| BF | |
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| Form PTO-1449 (Modified) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. P000 P941004(EPIUSC1CIP) | SERIAL NO. 081400-907-09/07/95 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | APPLICANT Wise et al. | |
| (Use several sheets if necessary) | | FILING DATE 03/07/95 | GROUP 3317 2202 2783 |
| (37 CFR 1.98(b)) | | | |

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| EXAMINER INITIAL | | PATENT NUMBER | | | | | | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | | |
|---------------------|----|---------------|---|---|---|---|---|---------------|----------|----------|-----------------------|-------------------------------|-----|----------|
| DN | JH | BI | 4 | 5 | 8 | 0 | 0 | 6 | 6 | 4/1/86 | Bemdt | 307 | 276 | 3/22/84 |
| | JH | BJ | 4 | 6 | 3 | 0 | 1 | 9 | 8 | 12/16/86 | I Yuan | 364 | 200 | 2/21/84 |
| | JH | BK | 4 | 5 | 4 | 6 | 1 | 5 | 1 | 2/24/87 | Welles II et al. | 368 | 149 | 2/1/85 |
| | JH | BL | 4 | 6 | 7 | 8 | 1 | 6 | 3 | 7/7/87 | Arneuld et al. | 364 | 726 | 3/8/85 |
| | JH | BM | 4 | 7 | 4 | 7 | 0 | 7 | 0 | 5/24/88 | Trettler et al. | 364 | 900 | 1/9/84 |
| | JH | BN | 4 | 7 | 8 | 5 | 3 | 4 | 9 | 11/15/88 | Keith et al. | 358 | 136 | 10/6/87 |
| previously filed | BB | BB | 4 | 7 | 8 | 9 | 9 | 2 | 7 | 12/0/86 | Hannah | 364 | 200 | 4/7/86 |
| | JH | BP | 4 | 7 | 9 | 9 | 8 | 7 | 7 | 1/24/89 | Frederiksen | 273 | 1E | 2/24/88 |
| previously filed | BB | BB | 4 | 8 | 2 | 8 | 2 | 8 | + | 4/10/89 | Simon et al. | 359 | 136 | 4/11/87 |
| | JH | BR | 4 | 8 | 2 | 9 | 4 | 6 | 5 | 5/9/89 | Knauer et al. | 364 | 725 | 8/19/88 |
| | JH | BS | 4 | 8 | 3 | 1 | 4 | 4 | 0 | 5/16/89 | Borgers et al. | 368 | 133 | 3/24/88 |
| | JH | BT | 4 | 8 | 8 | 8 | 5 | 1 | 0 | 9/12/89 | Goodfellow et al. | 358 | 13 | 9/30/88 |
| previously filed | BB | BB | 4 | 8 | 8 | 6 | 8 | 8 | 2 | 9/4/89 | Gonzalez Lopez et al. | 364 | 616 | 10/30/87 |
| DN JH | BV | BV | 4 | 8 | 8 | 7 | 2 | 2 | 4 | 12/12/89 | Okano et al. | 364 | 516 | 8/24/87 |

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

| | | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION |
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| | JH | BX | 2 2 4 9 0 7 0 | 26.01.94 | GB | | |
| | | BY | | | | | |
| | | BZ | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

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| EXAMINER <i>John Blyth</i> | DATE CONSIDERED <i>11/20/96</i> | 05/17/07 |
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| Form PTO-1449 (Modified) | U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. P000 P941004EPUSC1CIP | SERIAL NO. 66428-287 09/07/95 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | APPLICANT Wise et al. | |
| (Use several sheets if necessary) | | FILING DATE 03/07/95 | GROUP 2312 2362 2783 |
| (37 CFR 1.98(b)) | | | |

U. S. PATENT DOCUMENTS

| EXAMINER INITIAL | | PATENT NUMBER | | | | | | | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
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| DMJH | CD | 4 | 8 | 9 | 1 | 7 | 8 | 4 | 1/2/90 | Kato et al. | 384 | 900 | 1/8/88 |
| JH | CE | 4 | 9 | 0 | 3 | 0 | 1 | 8 | 2/20/90 | Wiebach et al. | 341 | 51 | 7/16/86 |
| JH | CF | 4 | 9 | 1 | 2 | 6 | 6 | 8 | 3/27/90 | Auble et al. | 384 | 725 | 6/5/87 |
| JH | CG | 4 | 9 | 2 | 2 | 3 | 4 | 1 | 8/1/90 | Strobach | 388 | 136 | 9/26/88 |
| JH | CH | 4 | 9 | 2 | 4 | 2 | 9 | 8 | 5/8/90 | Kitamura | 358 | 12 | 9/15/88 |
| JH | CI | 4 | 9 | 2 | 4 | 3 | 0 | 8 | 5/8/90 | Fauchtwanger | 358 | 133 | 3/7/89 |
| JH | CJ | 4 | 9 | 7 | 5 | 5 | 9 | 5 | 12/4/90 | Roberts et al. | 307 | 272.2 | 7/20/88 |
| JH | CK | 4 | 9 | 9 | 1 | 1 | 1 | 2 | 2/9/91 | Calleryn | 384 | 518 | 12/21/88 |
| JH | CL | 5 | 0 | 0 | 3 | 2 | 0 | 4 | 3/26/91 | Cushing et al. | 307 | 465 | 12/19/89 |
| JH | CM | 5 | 0 | 2 | 7 | 2 | 1 | 2 | 6/25/91 | Marlton et al. | 358 | 183 | 12/6/89 |
| JH | CN | 5 | 0 | 3 | 8 | 2 | 0 | 9 | 8/6/91 | Hang | 358 | 136 | 8/6/91 |
| JH | CO | 5 | 0 | 5 | 3 | 9 | 8 | 5 | 10/1/91 | Friedlander et al. | 384 | 725 | 10/19/89 |
| JH | CP | 5 | 0 | 5 | 7 | 7 | 9 | 3 | 10/15/91 | Cowley et al. | 331 | 1A | 10/29/90 |
| JH | CQ | 5 | 0 | 6 | 0 | 2 | 4 | 2 | 10/22/91 | Arbeiter | 375 | 122 | 2/24/89 |
| JH | CR | 5 | 0 | 8 | 1 | 4 | 5 | 0 | 1/14/92 | Lucas et al. | 340 | 728 | 3/9/90 |
| JH | CS | 5 | 0 | 8 | 6 | 4 | 8 | 9 | 2/4/92 | Shimura | 382 | 96 | 7/3/91 |

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| | | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION | |
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| | CU | | | | | | | |
| | CV | | | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication**)

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John H. John H. John H.

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| Form PTO-1449 (Modified) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. P000 P941004(EPIUSC1CIP) | SERIAL NO. 094400-007- 09/30/2007 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | APPLICANT Wise et al. | |
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| (37 CFR 1.98(b)) | | | |

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| EXAMINER INITIAL | | PATENT NUMBER | | | | | | | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
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| DMJH | CZ | 5 | 0 | 9 | 1 | 7 | 2 | 1 | 2/25/92 | Hemard | 340 | 727 | 12/22/88 |
| JH | DA | 5 | 1 | 0 | 7 | 3 | 4 | 5 | 4/21/92 | Lee | 358 | 432 | 5/28/91 |
| JH | DB | 6 | 1 | 1 | 1 | 2 | 9 | 2 | 5/6/92 | Kuriacose et al. | 358 | 133 | 2/27/91 |
| JH | DC | 5 | 1 | 1 | 3 | 2 | 8 | 5 | 5/12/92 | Nagata et al. | 358 | 138 | 5/11/90 |
| JH | DD | 5 | 1 | 2 | 2 | 8 | 7 | 3 | 8/16/92 | Golin | 358 | 133 | 2/19/91 |
| JH | DE | 5 | 1 | 2 | 2 | 8 | 7 | 5 | 8/16/92 | Raychaudhuri et al. | 358 | 133 | 2/27/91 |
| JH | DF | 5 | 1 | 2 | 4 | 7 | 9 | 0 | 8/23/92 | Nakayama | 358 | 133 | 2/20/90 |
| JH | DG | 5 | 1 | 2 | 6 | 8 | 4 | 2 | 8/30/92 | Andrews et al. | 358 | 133 | 12/26/90 |
| previously filed | BH | 5 | 4 | 2 | 8 | 0 | 5 | 9 | 7/7/92 | Hannah | 305 | 466 | 1/23/94 |
| JH | DI | 5 | 1 | 3 | 0 | 5 | 6 | 8 | 7/14/92 | Miller et al. | 307 | 272.2 | 11/5/90 |
| JH | DJ | 5 | 1 | 3 | 4 | 4 | 8 | 7 | 7/28/92 | Taguchi et al. | 358 | 209 | 11/5/90 |
| JH | DK | 5 | 1 | 3 | 4 | 8 | 9 | 7 | 7/28/92 | Scheffler | 395 | 426 | 12/10/90 |
| JH | DL | 5 | 1 | 3 | 8 | 3 | 7 | 1 | 8/4/92 | Savader et al. | 358 | 133 | 3/16/90 |
| JH | DM | 5 | 1 | 4 | 2 | 3 | 8 | 0 | 8/29/92 | Sakagami et al. | 358 | 432 | 10/18/80 |
| JH | DN | 5 | 1 | 4 | 6 | 3 | 2 | 5 | 9/8/92 | Ng | 358 | 135 | 4/29/91 |
| JH | DO | 5 | 1 | 4 | 6 | 3 | 2 | 6 | 9/8/92 | Hasegawa | 358 | 135 | 11/13/90 |

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

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| DN | DX | 5 | 1 | 4 | 8 | 2 | 7 | 1 | 9/15/92 | Kato et al. | 358 | 133 | 4/17/91 |
| JH | DW | 5 | 1 | 4 | 8 | 6 | 2 | 4 | 9/15/92 | Harlin et al. | 358 | 168 | 11/29/88 |
| JH | DX | 5 | 1 | 5 | 1 | 8 | 7 | 5 | 9/29/92 | Seto | 364 | 784 | 10/2/91 |
| JH | DY | 6 | 1 | 5 | 9 | 4 | 4 | 9 | 10/27/92 | Allmendinger | 358 | 136 | 12/26/91 |
| JH | DZ | 5 | 1 | 6 | 4 | 8 | 1 | 9 | 11/17/92 | Music | 358 | 13 | 4/3/91 |
| JH | EA | 5 | 1 | 8 | 8 | 3 | 5 | 6 | 12/1/92 | Acampora et al. | 358 | 133 | 12/20/91 |
| JH | EB | 5 | 1 | 6 | 8 | 3 | 7 | 5 | 12/1/92 | Reisch et al. | 358 | 432 | 9/18/91 |
| JH | EC | 5 | 1 | 7 | 2 | 0 | 1 | 1 | 12/15/92 | Lauthold et al. | 307 | 272.2 | 6/30/89 |
| JH | ED | 6 | 1 | 7 | 5 | 6 | 1 | 7 | 12/29/92 | Wallace et al. | 358 | 133 | 12/4/91 |
| JH | EE | 5 | 1 | 7 | 9 | 3 | 7 | 2 | 1/12/93 | West et al. | 340 | 799 | 3/28/91 |
| JH | EF | 6 | 1 | 8 | 2 | 6 | 4 | 2 | 1/26/93 | Gersdorff et al. | 358 | 133 | 4/19/91 |
| JH | EG | 5 | 1 | 8 | 4 | 1 | 2 | 4 | 2/2/93 | Molpus et al. | 341 | 60 | 1/2/91 |
| JH | EH | 5 | 1 | 8 | 5 | 8 | 1 | 9 | 2/9/93 | Ng et al. | 382 | 58 | 4/29/91 |
| JH | EI | 6 | 1 | 8 | 9 | 5 | 2 | 8 | 2/23/93 | Sasson | 358 | 432 | 9/21/90 |
| JH | EJ | 5 | 1 | 9 | 1 | 5 | 4 | 8 | 3/2/93 | Balkanski et al. | 364 | 725 | 1/3/92 |
| JH | EK | 6 | 1 | 9 | 3 | 0 | 0 | 2 | 3/9/93 | Guichard et al. | 358 | 133 | 3/25/91 |
| DN | EL | 5 | 2 | 0 | 1 | 0 | 5 | 8 | 4/6/93 | Daniel et al. | 385 | 800 | 5/2/90 |

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| DM | JH | ER | 5 | 2 | 0 | 2 | 8 | 4 | 7 | 4/13/93 | Bolton et al. | 364 | 725 | 7/31/90 |
| | JH | ES | 5 | 2 | 1 | 2 | 5 | 4 | 9 | 5/18/93 | Ng et al. | 358 | 135 | 6/16/92 |
| | JH | ET | 5 | 2 | 1 | 2 | 7 | 4 | 2 | 5/18/93 | Normille et al. | 382 | 56 | 5/24/91 |
| | JH | EU | 5 | 2 | 1 | 4 | 5 | 0 | 7 | 5/29/93 | Aravind et al. | 358 | 133 | 11/8/91 |
| | JH | EV | 5 | 2 | 1 | 6 | 7 | 2 | 4 | 6/1/93 | Suzuki et al. | 382 | 7 | 8/28/92 |
| | JH | EW | 5 | 2 | 2 | 3 | 9 | 2 | 6 | 6/29/93 | Stone et al. | 358 | 133 | 12/19/91 |
| | JH | EX | 5 | 2 | 2 | 7 | 8 | 7 | 8 | 7/13/93 | Puri et al. | 358 | 136 | 11/15/91 |
| | JH | EY | 5 | 2 | 2 | 8 | 0 | 9 | 8 | 7/13/93 | Crinon et al. | 382 | 56 | 6/14/91 |
| | JH | EZ | 5 | 2 | 2 | 9 | 8 | 6 | 3 | 7/20/93 | Kao et al. | 368 | 426 | 12/24/90 |
| | JH | FA | 5 | 2 | 3 | 1 | 4 | 8 | 4 | 7/27/93 | Gonzales et al. | 368 | 133 | 11/8/91 |
| | JH | FB | 5 | 2 | 3 | 1 | 4 | 8 | 6 | 7/27/93 | Acampora et al. | 358 | 133 | 7/27/92 |
| | JH | FC | 5 | 2 | 3 | 3 | 4 | 2 | 0 | 8/3/93 | Puri et al. | 388 | 149 | 4/10/88 |
| | JH | FD | 5 | 2 | 3 | 3 | 6 | 9 | 0 | 8/3/93 | Sherlock et al. | 395 | 165 | 7/28/89 |
| | JH | FE | 5 | 2 | 3 | 7 | 4 | 1 | 3 | 8/17/93 | Israelsen et al. | 358 | 180 | 11/19/91 |
| | JH | FF | 5 | 2 | 4 | 1 | 2 | 2 | 2 | 8/31/93 | Small et al. | 307 | 449 | 12/20/91 |
| | JH | FG | 5 | 2 | 4 | 1 | 3 | 8 | 3 | 8/31/93 | Chen et al. | 358 | 136 | 5/13/92 |

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| DN/JH | FN | 5 | 2 | 4 | 1 | 6 | 6 | 8 | 8/31/93 | Masterson et al. | 398 | 162 | 8/21/90 |
| JH | FO | 5 | 2 | 4 | 7 | 6 | 1 | 2 | 9/21/93 | Quinard | 395 | 166 | 6/29/90 |
| JH | FP | 5 | 2 | 4 | 9 | 1 | 4 | 6 | 9/28/93 | Uramoto et al. | 364 | 725 | 3/20/92 |
| JH | FQ | 5 | 2 | 9 | 3 | 0 | 5 | 8 | 10/12/93 | Gharavi | 388 | 136 | 4/1/92 |
| JH | FR | 5 | 2 | 6 | 3 | 0 | 7 | 8 | 10/12/93 | Balkanski et al. | 358 | 426 | 8/23/90 |
| JH | FS | 5 | 2 | 5 | 7 | 2 | 1 | 3 | 10/28/93 | Kim et al. | 364 | 725 | 5/30/91 |
| JH | FT | 5 | 2 | 5 | 7 | 2 | 2 | 3 | 10/28/93 | Oervisoglu | 365 | 154 | 11/13/91 |
| JH | FU | 5 | 2 | 5 | 7 | 3 | 5 | 0 | 10/28/93 | Howard et al. | 395 | 162 | 12/13/91 |
| JH | FV | 5 | 2 | 8 | 8 | 7 | 2 | 5 | 11/2/93 | Kinoshita | 331 | 17 | 10/4/91 |
| JH | FW | 5 | 2 | 8 | 0 | 7 | 8 | 1 | 11/9/93 | Soloff et al. | 398 | 133 | 5/20/92 |
| JH | FX | 5 | 2 | 8 | 0 | 7 | 8 | 2 | 11/9/93 | Hui | 358 | 133 | 8/31/92 |
| JH | FY | 5 | 2 | 8 | 1 | 0 | 4 | 7 | 11/9/93 | Rivshin | 395 | 183 | 10/29/91 |
| JH | FZ | 5 | 2 | 8 | 3 | 1 | 3 | 6 | 11/16/93 | DeAguilar et al. | 395 | 184 | 4/30/91 |
| JH | GA | 5 | 2 | 8 | 7 | 3 | 3 | 4 | 11/30/93 | Normille et al. | 382 | 56 | 1/21/93 |
| JH | GB | 5 | 2 | 7 | 6 | 5 | 1 | 3 | 1/4/94 | van der Wal et al. | 368 | 136 | 8/10/92 |
| DN/JH | GC | 5 | 2 | 7 | 6 | 6 | 8 | 1 | 1/4/94 | Tobagi et al. | 370 | 85.4 | 6/25/92 |

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| DN | JH | GJ | 5 | 2 | 7 | 6 | 7 | 8 | 4 | 1/4/94 | Ohki | 395 | 127 | 12/17/91 |
| | JH | GK | 5 | 2 | 7 | 8 | 6 | 2 | 0 | 1/11/94 | Parker et al. | 331 | 1A | 10/28/92 |
| | JH | GL | 5 | 2 | 7 | 8 | 8 | 4 | 6 | 1/11/94 | Civanlar et al. | 388 | 133 | 3/17/93 |
| | JH | GM | 6 | 2 | 7 | 8 | 6 | 4 | 7 | 1/11/94 | Hingorani et al. | 358 | 136 | 8/6/92 |
| | JH | GN | 5 | 2 | 8 | 3 | 6 | 4 | 6 | 2/1/94 | Bruder | 348 | 416 | 4/9/92 |
| | JH | GO | 5 | 2 | 8 | 7 | 1 | 7 | 8 | 2/15/94 | Acampora et al. | 348 | 384 | 7/6/92 |
| | JH | GP | 5 | 2 | 8 | 7 | 1 | 9 | 3 | 2/15/94 | Lin | 358 | 281.1 | 6/14/91 |
| | JH | GO | 5 | 2 | 8 | 7 | 4 | 2 | 0 | 2/15/94 | Barrett | 382 | 66 | 4/8/92 |
| previously filed | GA | 5 | 2 | 8 | 9 | 2 | 7 | 6 | 2/22/94 | Giraudou et al. | 348 | 467 | 6/4/92 | |
| previously filed | GG | 5 | 2 | 8 | 9 | 5 | 7 | 7 | 2/22/94 | Gonzales et al. | 395 | 463 | 6/4/92 | |
| | JH | GT | 5 | 2 | 9 | 3 | 2 | 2 | 9 | 3/8/94 | Iu | 348 | 415 | 3/27/92 |
| | JH | GU | 5 | 2 | 9 | 4 | 8 | 9 | 4 | 3/15/94 | Gebara | 331 | 1A | 10/2/92 |
| | JH | GV | 5 | 2 | 9 | 8 | 8 | 9 | 6 | 3/29/94 | Lai et al. | 341 | 51 | 3/15/93 |
| | JH | GW | 5 | 2 | 9 | 8 | 9 | 9 | 2 | 3/29/94 | Pietras et al. | 348 | 415 | 10/8/92 |
| | JH | GX | 5 | 2 | 9 | 9 | 0 | 2 | 5 | 3/29/94 | Shirasawa | 358 | 400 | 6/25/92 |
| DN | JH | GY | 5 | 3 | 0 | 0 | 9 | 4 | 9 | 4/5/94 | Rodriguez et al. | 345 | 202 | 10/22/92 |

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| DN/JH | HF | 5 | 3 | 0 | 1 | 0 | 1 | 9 | 4/6/94 | Citta | 348 | 418 | 9/17/92 |
| JH | HG | 5 | 3 | 0 | 1 | 0 | 3 | 2 | 4/5/94 | Hong et al. | 358 | 261.2 | 12/4/92 |
| JH | HH | 5 | 3 | 0 | 1 | 0 | 4 | 0 | 4/5/94 | Hoshi et al. | 358 | 465 | 4/22/92 |
| JH | HI | 5 | 3 | 0 | 1 | 1 | 3 | 6 | 4/6/94 | McMillan, Jr et al. | 364 | 725 | 7/27/93 |
| Previously Filed | Hd | 5 | 3 | 0 | + | 2 | 4 | 2 | 4/5/94 | Goncalves et al. | 302 | 56 | 8/04/92 |
| JH | HK | 5 | 3 | 0 | 1 | 2 | 7 | 2 | 4/5/94 | Atkins | 395 | 165 | 11/25/92 |
| JH | HL | 5 | 3 | 0 | 3 | 3 | 4 | 2 | 4/12/94 | Edge | 395 | 164 | 12/22/92 |
| JH | HM | 5 | 3 | 0 | 4 | 9 | 5 | 3 | 4/19/94 | Heim et al. | 331 | 1A | 8/1/93 |
| JH | HN | 5 | 3 | 0 | 5 | 4 | 3 | 8 | 4/19/94 | MacKay et al. | 395 | 184 | 5/19/92 |
| JH | HO | 5 | 3 | 0 | 9 | 5 | 2 | 7 | 5/3/94 | Ohki | 382 | 56 | 1/15/92 |
| JH | HP | 5 | 3 | 1 | 1 | 3 | 0 | 9 | 5/10/94 | Ersoz et al. | 348 | 409 | 5/30/91 |
| DX/JH | HQ | 5 | 3 | 5 | 1 | 0 | 4 | 7 | 9/27/94 | Bahien | 341 | 87 | 9/21/92 |
| | HR | | | | | | | | | | | | |
| | HS | | | | | | | | | | | | |

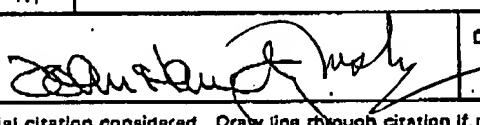
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|------------------|----|---------------|---|---|---|---|---|---|------------|----------------------|-------|----------|----------------------------|
| JK | AA | 3 | 9 | 6 | 2 | 6 | 8 | 5 | 8/76 | Belle-Isle | 340 | 172.5 | |
| JK | AB | 4 | 1 | 4 | 9 | 2 | 4 | 2 | 4/79 | Plrz | 364 | 200 | |
| JK | AC | 4 | 7 | 8 | 9 | 9 | 2 | 7 | 12/88 | Hannah | 364 | 200 | |
| JK | AD | 4 | 8 | 2 | 3 | 2 | 0 | 1 | 4/18/89 | Simon et al. | 358 | 133 | |
| JK | AE | 4 | 8 | 6 | 8 | 6 | 3 | 7 | 9/12/89 | Gonzalez-Lopez et al | 364 | 518 | |
| JK | AF | 5 | 1 | 2 | 9 | 0 | 5 | 9 | 7/7/92 | Hannah | 395 | 166 | |
| JK | AG | 5 | 2 | 8 | 9 | 2 | 7 | 8 | 2/22/94 | Siracusa et al. | 348 | 467 | |
| JK | AH | 5 | 2 | 8 | 9 | 5 | 7 | 7 | 2/22/94 | Gonzales et al. | 395 | 163 | |
| JK | AI | 5 | 3 | 0 | 1 | 2 | 4 | 2 | 4/5/94 | Gonzales et al. | 382 | 58 | |
| | AJ | | | | | | | | | | | | |

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| JK | AN | Chong, "A Data Flow Architecture For Digital Image Processing," Wescon Tech. Papers No. 4/8, 10/30/84, Anaheim, California, USA, pp. 1-10 |
| JK | AO | Komori et al., "An Elastic Pipelining Mechanism By Self-Timed Circuits, IEEE Journal Of Solid-State Circuits, Vol. 23, No. 1, 2/88, New York, NY, USA, pp. 111-117 |
| | AP | |

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| A 5,457,780 | 10/95 | Shaw et al. | 395 | 166 |
| B 5,421,028 | 5/95 | Swanson | 395 | 800 |
| C 5,122,948 | 6/92 | Zapolin | 384 | 131 |
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NON-PATENT DOCUMENTS

| DOCUMENT (Including Author, Title, Source, and Pertinent Pages) | DATE |
|---|----------|
| Chong, "A Data Flow Architecture for Digital Image Processing," Wescon Tech. Paper No. 4/8, pp. 1-10. | |
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* A copy of this reference is not being furnished with this Office action.
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